

4/16/04

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Prior Application Number	09/906,999- 10/825,177
				Prior Appl. Filing Date	07/17/2001
				First Named Inventor	Axel Ullrich
				Group Art Unit	Unassigned 1646
				Examiner Name	Unassigned
				Attorney Docket Number	034536-1468
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U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
u	A1	4,945,050		SAMFORD et al.	07-31-1990	
u	A2	5,283,173		FIELDS et al.	02-01-1994	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
u	A3	WO	93/09236	A1	BAYLOR COLLEGE OF MEDICINE	05-13-1993		
u	A4	WO	94/23039	A1	THE INSTITUTE OF CANCER RESEARCH: ROYAL CANCER HOSPITAL	10-13-1994		
u	A5	WO	96/18738	A2	SUGEN INC. et al.	06-20-1996		
u	A6	WO	97/35019	A1	GENETECH INC.	09-25-1997		
Ca	A7	WO	97/48723	A2	MAX-PLANCK-GESELLSCHAFT SUR FORDERUNG DER WISSENSCHAFTEN E.V.	12-24-1997		

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ca	A8	ABE et al., "Molecular Characterization of a Novel Metabotropic Glutamate Receptor mGluR5 Coupled to Inositol Pophosphate/Ca ²⁺ Signal," <u>J. Biol. Chem.</u> 267(19):13361-13368(1992)		
	A9	Abstract from 94 th Annual Meeting of the American Gastroenterological Association, Boston, May 15-21 (1993)		
Ch	A10	AOKI et al., "The Novel Protein-Tyrosine Phosphatase PTP20 Is a Positive Regulator of PC12 Cell Neuronal Differentiation," <u>J. Biol. Chem.</u> 271(46):29422-29426 (1996)		

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OK	A11	BARFORD et al., "Crystal Structure of Human Protein Tyrosine Phosphatase 1B," <u>Science</u> 263:1397-1403 (1994)		
	A12	BECKER et al., "cDNA cloning and characterization of rat Clk3, a LAMMER kinase predominantly expressed in testis," <u>Biochim. Biophys. Acta</u> 1312(1):63-67 (1996)		
	A13	BECKMAN et al., "An Adhesive Domain Detected in Functionally Diverse Receptors," <u>Trends Biochem. Sci.</u> 18:40 (1993)		
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	A20	CLOSSEK et al., "Cloning, Characterization, and Differential Expression of MDK2 and MDK5, Two Novel Receptor Tyrosine Kinases of the Eck/Eph Family," <u>Oncogene</u> 11:2085-2095 (1995)		
	A21	COLWILL et al., "The Clk/Sty Protein Kinase Phosphorylates SR Splicing Factors and Regulates Their Intranuclear Distribution," <u>The EMBO Journal</u> 15(2):265-275 (1996)		
	A22	COOL et al., "DNA Isolated from a Human T-cell Library Encodes a Member of the Protein-tyrosine-phosphatase Family," <u>Proc. Natl. Acad. Sci. USA</u> 86, 5257-5761 (1989)		
	A23	CUNNINGHAM et al., "Neural Cell Adhesion Molecule: Structure, immunoglobulin-Like Domains, Cell Surface Modulation, and Alternative RNA Splicing" <u>Science</u> 236, 799-806 (1987)		
	A24	CURIEL et al., "Gene Transfer to Respiratory Epithelial Cells via the Receptor-mediated Endocytosis Pathway," <u>Am. J. Respir. Cell. Mol. Biol.</u> 6, 247-252 (1992)		

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		First Named Inventor	Axel Ullrich
		Group Art Unit	Unassigned 1646
		Examiner Name	Unassigned
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
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<i>ch</i>	A25	DIGNAM et al., "Accurate transcription initiation by RNA polymerase II in a soluble extract from isolated mammalian nuclei," <u>Nucleic Acids Research</u> , 1983, pp. 1475-1489, Vol. 11, No. 5	
	A26	DINGWALL et al., "Nuclear targeting sequences - a consensus," <u>TIBS</u> , December 1991, pp. 478-481, Vol. 16	
	A27	DUNCAN et al., "Alternative Splicing of STY, a Nuclear Dual Specificity Kinase*," <u>The Journal of Biological Chemistry</u> 270:21524-21531 (1995)	
	A28	EATON et al., "Construction and Characterization of an Active Factor VIII Variant Lacking the Central One-Third of the Molecule" <u>Biochemistry</u> 25(26) 8343-8347 (1986)	
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	A32	FIELD et al., "Cloning and Characterization of CAP, the S. Cerevisiae Gene Encoding the 70 kd Adenylyl Cyclase-Associated Protein" <u>Cell</u> 61:319-327 (1990)	
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	A35	FU, "The superfamily of arginine/serine-rich splicing factors," <u>RNA</u> 1:663-680(1995)	
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<i>ch</i>	A37	GenBank Database Accession No. AA059682 (version GI: 1553435), Sept. 23, 1996, accessed 1/22/01	
<i>ch</i>	A38	GenBank Database Accession No. W89331 (version GI:1538524), Sept. 12, 1996, accessed 1/22/01	

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		Prior Appl. Filing Date	07/17/2001
		First Named Inventor	Axel Ullrich
		Group Art Unit	Unassigned- 164C
		Examiner Name	Unassigned
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ch	A39	HAMMER et al., "Spontaneous Inflammatory Disease in Transgenic Rats Expressing HLA-B27 and Human β_2m : An Animal Model of HLA-B27-Associated Human Disorders," <u>Cell</u> 63, 1099-1112(1990)	
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	A41	HARADA et al., "Selection of RNA-binding peptides in vivo," <u>Nature</u> 380:175-179 (1996)	
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	A44	HOWELLet al., "STY, a Tyrosine-Phoshorylating Enzyme with Sequence Homology to Serine/Threonine Kinases," <u>Molecular and Cellular Biology</u> 11(1):568-572 (1991)	
	A45	JIANG et al., "The α Subunit of Merpron A" <u>J. of Biol. Chem.</u> 267:9185 (1992)	
	A46	JOHNSON and SMITH, "Molecular Cloning of a Novel Human cdc2/CDC28-like Protein Kinase," <u>J. Biol. Chem.</u> 266(6):3402-3407 (1991)	
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	A48	KASPRZAK et al., "Location of a Contact Site Between Acting and Myosin in the Three-Dimensional Structure of the Acto-S1 Complex," <u>Biochemistry</u> 28, 9230-9238 (1989)	
	A49	KHARITONENKOV et al., "A Family Of Proteins That Inhibit Signalling Through Tyrosine Kinase Receptors," <u>Nature</u> 386:181-186 (1997)	
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	A51	KIM et al., "Characterization of the PEST family protein tyrosine phosphatase BDP1," <u>Oncogene</u> 13(10):2275-2279 (1996)	
α	A52	KOHTZ et al., "Protein-protein interactions and 5'-splice-site recognition in mammalian mRNA precursors," <u>Nature</u> 368:119-124(1994)	

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an	A53	KRUEGER et al., "A Human Transmembrane Protein-tyrosine-phosphatase, Ptp ζ , Is Expressed in Brain and Has an N-terminal Receptor Domain Homologous to Carbonic Anhydrases," <u>Proc. Natl. Acad. Sci. USA</u> 89, 7417-7421 (1992)	
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	A62	MERMOUD et al., "Regulation of mammalian spliceosome assembly by a protein phosphorylation mechanism," <u>EMBO J.</u> 13:5679-5688 (1994)	
	A63	MILLAUER et al., "Glioblastoma Growth Inhibited <i>In Vivo</i> by a Dominant-negative Flk-1 Mutant," <u>Nature</u> 367:576-579 (1994)	
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an	A65	NAYLER et al., "Characterization and comparison of four serine- and arginine-rich (SR) protein kinases," <u>Biochem. J.</u> 326:693-700 (1997)	

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Ch	A66	NAYLER et al., "SAF-B Protein Couples Transcription and Pre-mRNA Splicing to SAR/MAR Elements" <u>Nucl. Acid. Res.</u> 26(15) 3542-3549 (1998)	
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-	A68	OTA et al., <u>Proc. Natl. Acad. Sci.</u> , 89, 2355-2359, March 1992.	
-	A69	<u>PCR Protocols: A Guide to Methods and Applications</u> , edited by Michael Innis et al., Academic Press, San Diego (1990) (TABLE OF CONTENTS ONLY)	
-	A70	PUISSANT et al., "An Improvement of the Single-Step Method of RNA Isolation by Acid Guanidinium Thiocyanate-Phenol-Chloroform Extraction," <u>BioTechniques</u> , 1990, pp. 148-149, Vol. 8, No. 2	
-	A71	REDEMANN et al., "Anti-Oncogenic Activity of Signalling-Defective Epidermal Growth Factor Receptor Mutants," <u>Mol. and Cell. Biol.</u> 2(2) 491-498 (1992)	
-	A72	ROGERS et al., "Amino Acid Sequences Common to Rapidly Degraded Proteins: The PEST Hypothesis" <u>Science</u> 234:364-368 (1986)	
-	A73	SAITO and STREULI, "Molecular Characterization of Protein Tyrosine Phosphatases," <u>Cell Growth & Differentiation</u> 2(1):59-65 (1991)	
-	A74	SAMBROOK et al., <u>Molecular Cloning: A Laboratory Manual</u> , 2 nd Edition, Cold Spring Harbor Laboratory Press (1989) (TABLE OF CONTENTS ONLY - ALL THREE VOLUMES)	
-	A75	SANGER et al., "DNA sequencing with chain-terminating inhibitors," <u>Proc. Natl. Acad. Sci. USA</u> , December 1977, pp. 5462-5467, Vol. 74, No. 12	
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-	A77	SMITH et al., "Single-step Purification of Polypeptides Expressed in Escherichia Coli as Fusions with Glutathione S-transferase" <u>Gene</u> , 67:31-40 (1988)	
-	A78	STAKNIS et al., "SR proteins promote the first specific recognition of pre-mRNA and are present together with the U1 small nuclear ribonucleoprotein particle in a general splicing enhancer complex," <u>Mol. Cell. Biol.</u> 14:7670-7682 (1994)	
Ch	A79	STEIN-GERLACH et al., "Protein-tyrosine Phosphate 1D Modulates Its Own State of Tyrosine Phosphorylation" <u>J. Biol. Chem.</u> 270:24635 (1995)	

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		Group Art Unit	Unassigned - 1646
		Examiner Name	Unassigned
(use as many sheets as necessary)		Attorney Docket Number	034536-1468
Sheet	7	of	8

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
ca	A80	STUCKEY et al., "Crystal Structure of Yersinia Protein Tyrosine Phosphatase at 2.5 Å and the Complex with Tungstate" <u>Nature</u> 370:571-575 (1994)	
	A81	SU et al., "The Crystal Structure of a Low-Molecular-Weight Phosphotyrosine Protein Phosphatase" <u>Nature</u> 370, 575-578 (1994)	
	A82	TAKEKAWA et al., "Cloning and characterization of a human cDNA encoding a novel putative cytoplasmic protein-tyrosine-phosphatase," <u>Biochem. Biophys. Res. Commun.</u> 189:1223-1230 (1992)	
	A83	THOMAS et al., "Structural Modification of Acidic Fibroblast Growth Factor Alter Activity, Stability, and Heparin Dependence" <u>Ann. NY Acad. Sci.</u> 9-17 (1991)	
	A84	TOMIC et al., "Association of SH2 Domain Protein Tyrosine Phosphatases with the Epidermal Growth Factor Receptor in Human Tumor Cells: Phosphatidic Acid Activates Receptor Dephosphorylation by PTP1C," <u>J. Biol. Chem.</u> 270:21277-21284 (1995)	
	A85	ULLRICH et al., "Rat Insulin Genes: Construction of Plasmids Containing the Coding Sequences" <u>Science</u> 196:1313-1319 (1977)	
	A86	VOGEL et al., "Activation of a Phosphotyrosine Phosphatase by Tyrosine Phosphorylation," <u>Science</u> 259:1611-1614 (1994)	
	A87	VOJTEK et al., "Mammalian Ras Interacts Directly with the Serine/Threonine Kinase Raf," <u>Cell</u> 74:205-214 (1993)	
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	A89	WARD et al., "Construction and Characterisation of a Series of Multi-copy Promoter-probe Plasmid Vectors for <i>Streptomyces</i> Using the Aminoglycoside Phosphotransferase Gene from Tn5 as Indicator," <u>Mol. Gen. Genet.</u> 203, 468-478 (1986)	
	A90	WINFIELD et al., "Identification of Three Additional Genes Contiguous to the Glucocerebrosidase Locus on Chromosome 1q21: Implications for Gaucher Disease," <u>Genome Research</u> 7(10):1020-1026 (1997)	
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ak	A92	YAMAUCHI et al., "Epidermal Growth Factor Induced Association of the SHPTP2 Protein Tyrosine Phosphatase with a 115-kDa Phosphotyrosine Protein" <u>J. Biol. Chem.</u> 270:14871-14874 (1995)	

Examiner Signature	<i>Cheri Koz</i>	Date Considered	3/6/06
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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Prior Application Number	09/905,999 10/23/07
				Prior Appl. Filing Date	07/17/2001
				First Named Inventor	Axel Ullrich
				Group Art Unit	Unassigned 1646
				Examiner Name	Unassigned
Sheet 8 of 8				Attorney Docket Number	034536-1468

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
Cp	A93	YAMAUCHI et al., "Identification of the Major SHPTP2-binding Protein That is Tyrosine-phosphorylated in Response to Insulin" <u>J. Biol. Chem.</u> 270:17716-17722 (1995) -	
	A94	YANG et al., "Cloning and Expression of PTP-PEST a Novel, Human, Nontransmembrane Protein Tyrosine Phosphatase," <u>J. Biol. Chem.</u> 268(9):6622-6628 (1993)	
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	A96	ZAHLER et al., "SR Proteins: a Conserved Family of Pre-mRNA Splicing Factors," <u>Genes & Development</u> 6:837-847 (1992)	
	A97	ZELICOF et al., "Molecular Cloning and Characterization of a Rat Homolog of CAP, The Adenylyl Cyclase-Associated Protein From <i>Saccharomyces Cerevisiae</i> " <u>J. of Biol. Chem.</u> 268(18) 13448-13453 (1993)	
Ce	A98	ZHANG, et al., "Dissecting the Catalytic Mechanism of Protein Tyrosin Phosphatases" <u>Proc. Natl. Acad. Sci. USA</u> 91:1624-1627 (1994)	

Examiner Signature	<i>Chen H</i>	Date Considered	3/6/06
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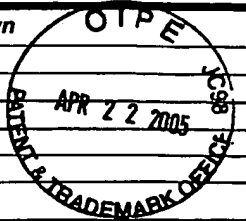
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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known		
Application Number	10/825,177		Sheet	1	of	1
Filing Date	04/16/2004					
First Named Inventor	Axel Ullrich					
Group Art Unit	1653-1646					
Examiner Name	Unassigned					
Attorney Docket Number	034536-1468					

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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Ch	B1	SEFFERNICK et al., "Melamine Deaminase and Atrazine Chlorohydrolase: 98 Percent Identical but Functionally Different," <u>Journal of Bacteriology</u> , April 2001, pp. 2405-2410, Vol. 183, No. 8, American Society for Microbiology	

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